

Problem 1

This document displays the special angles that lie on tangent and inverse tangent function associated with one period of tangent.

This document investigates the connections between the graphs of tangent and inverse of tangent

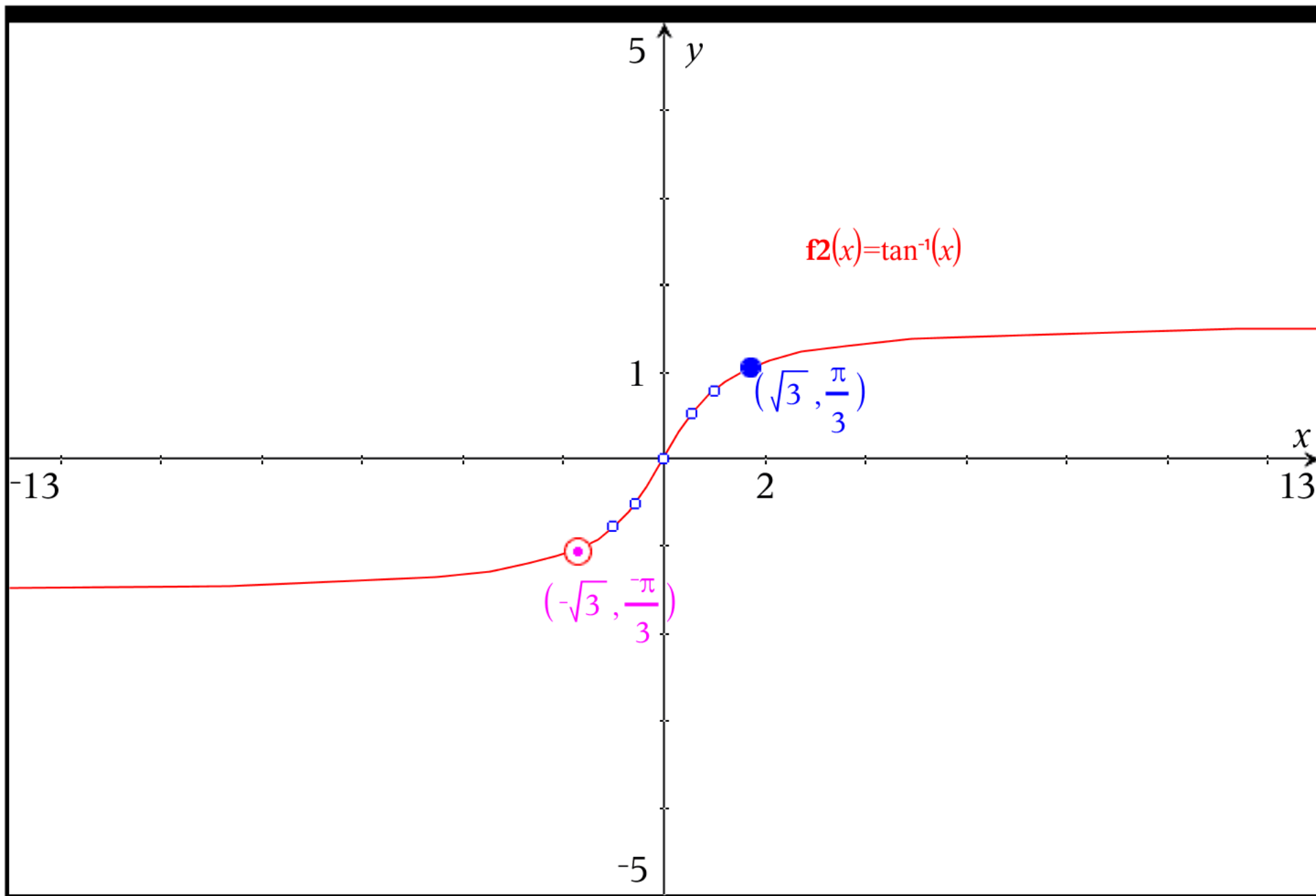
The special coordinate associated with an angle that has a tangent ratio of $-\sqrt{3}$

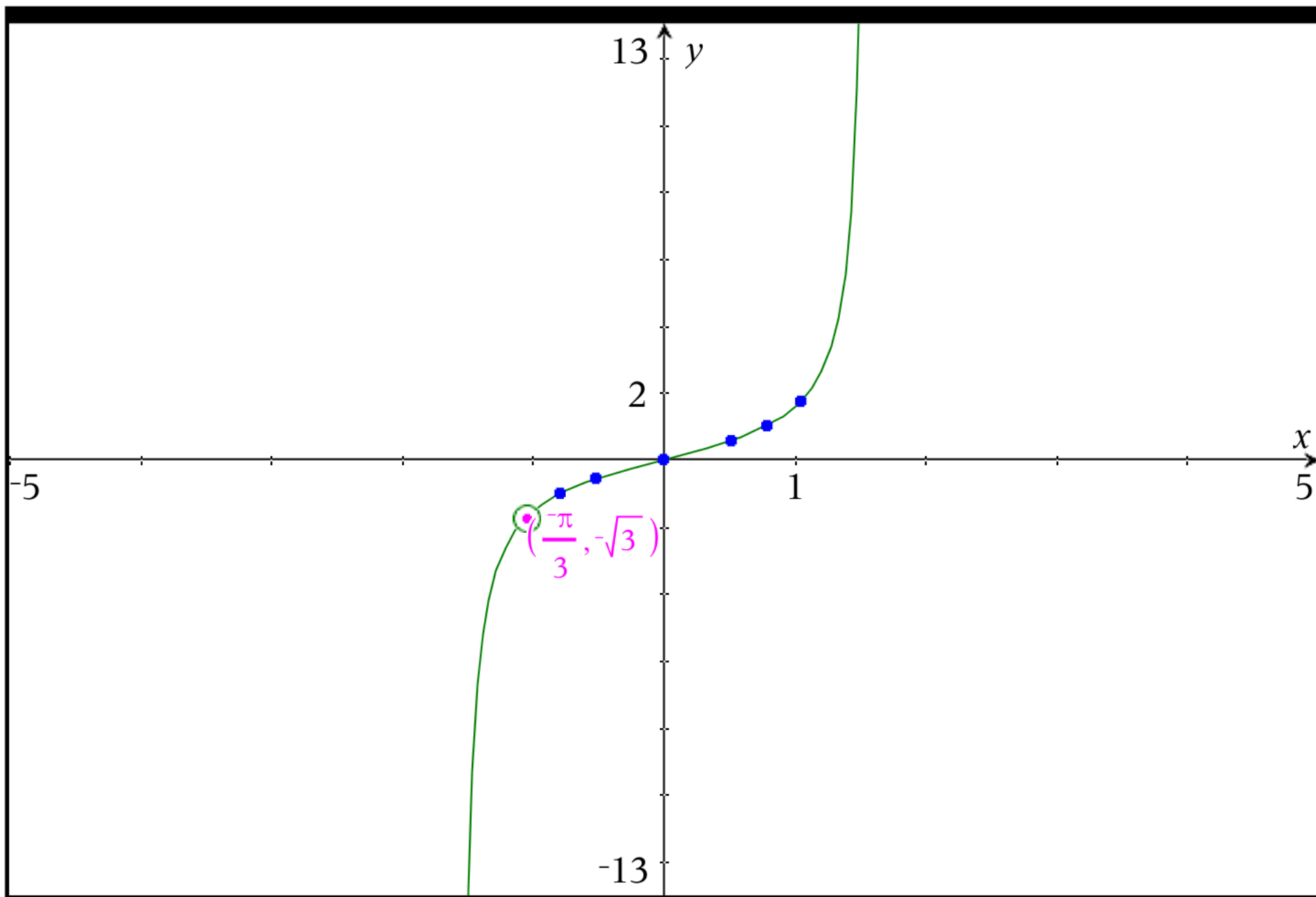
the related angle in radian measurement is $-\frac{\pi}{3}$

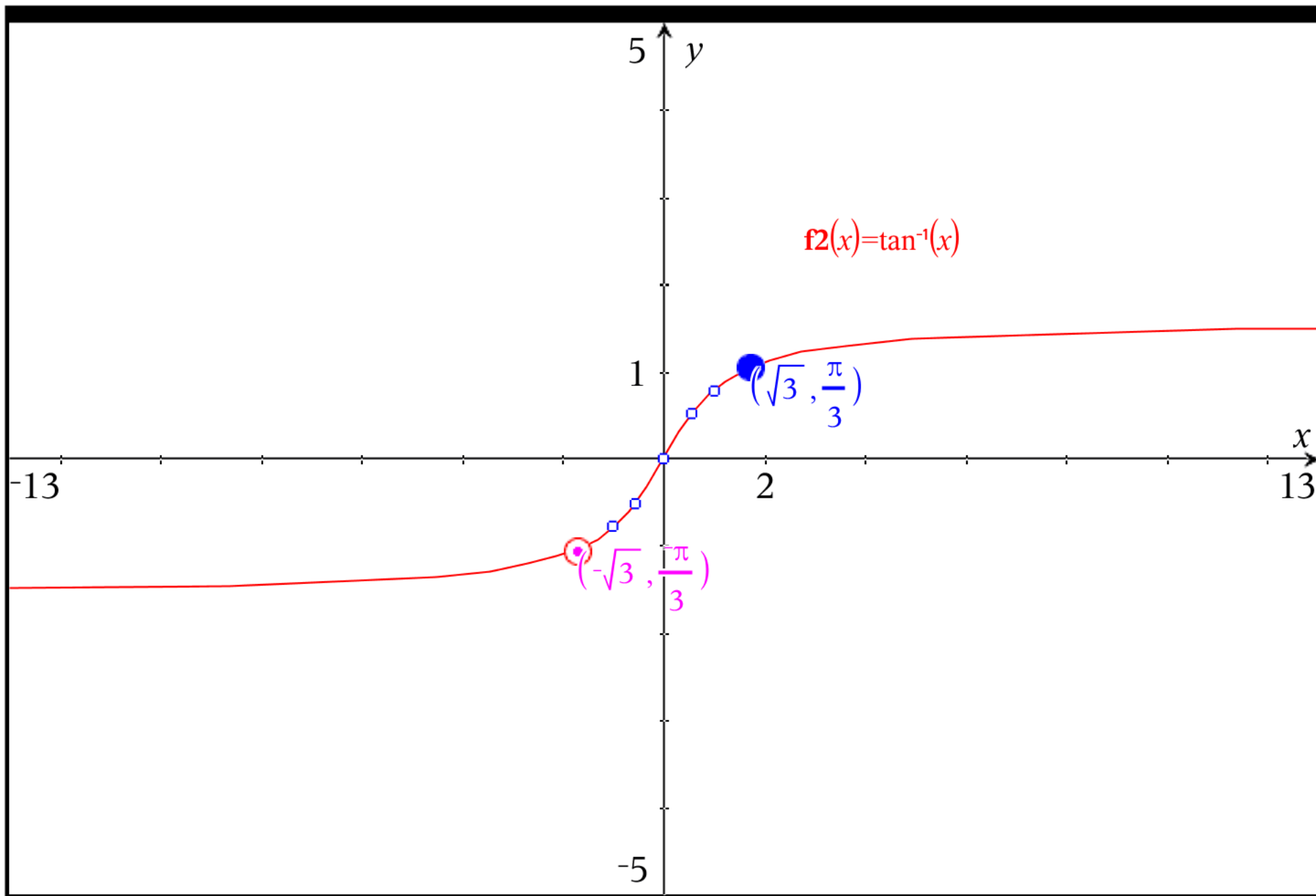
The user can change the grey boxes to define a new tangent ratio

The large solid point can be manipulated by the user on either the graph of the tangent function or its inverse

	A	B	C
=			
1	opp_t	$-\sqrt{3}$	
2	adj_t	1	
3			
4			
5			
6			
7			
8			
9			
10			
11			
B2	1		

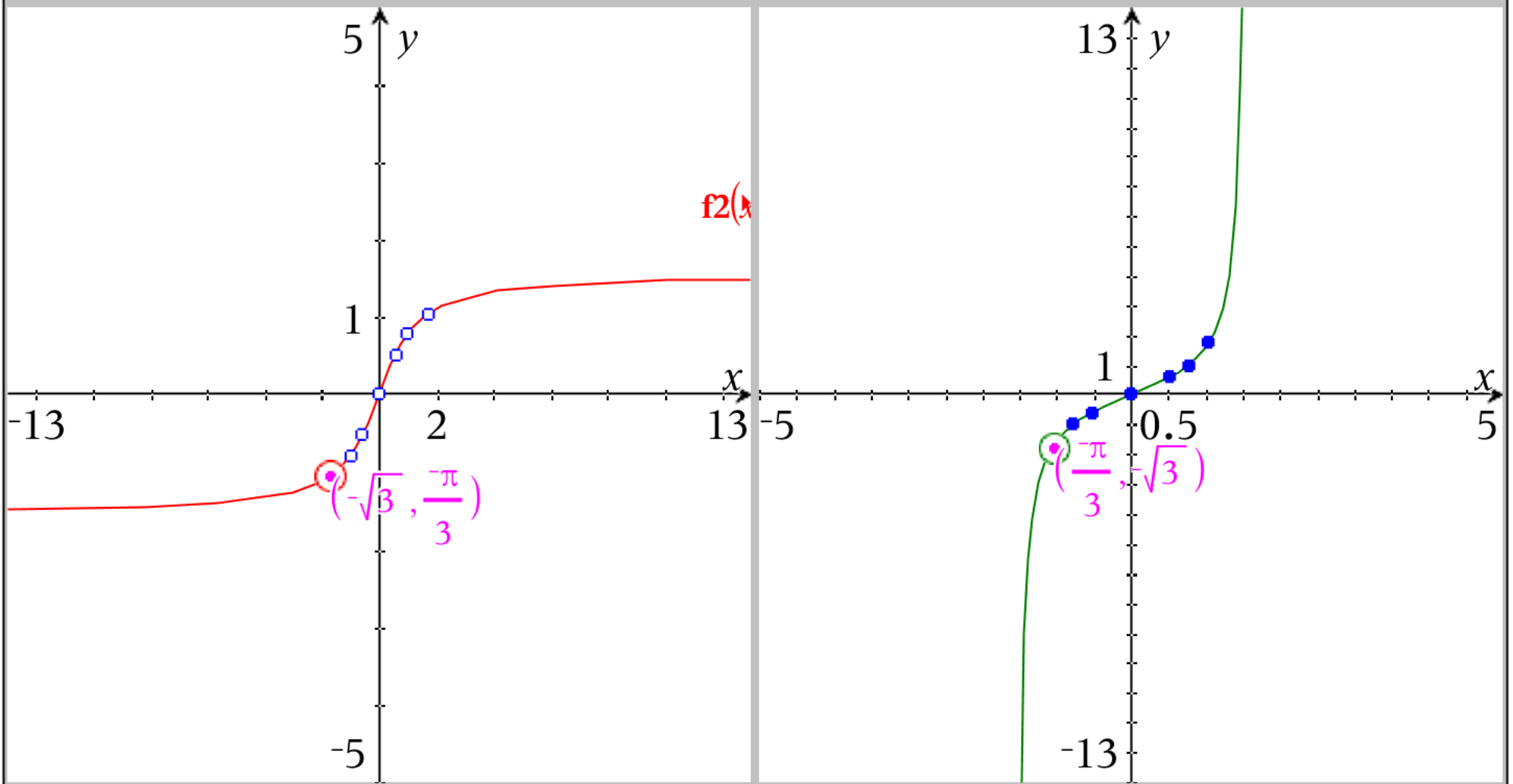


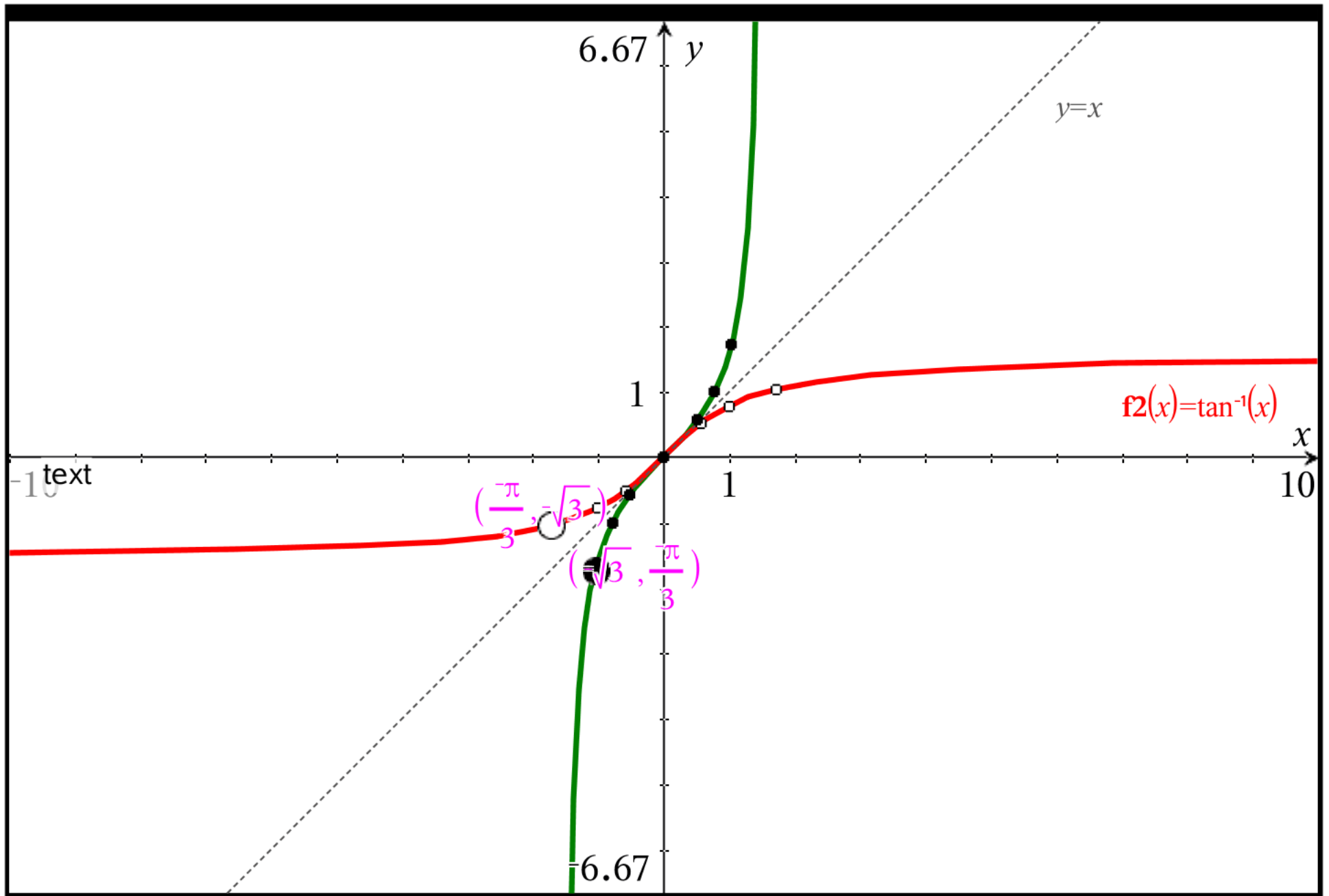




Big Connections Card #1

What are the connections between the following two graphs?





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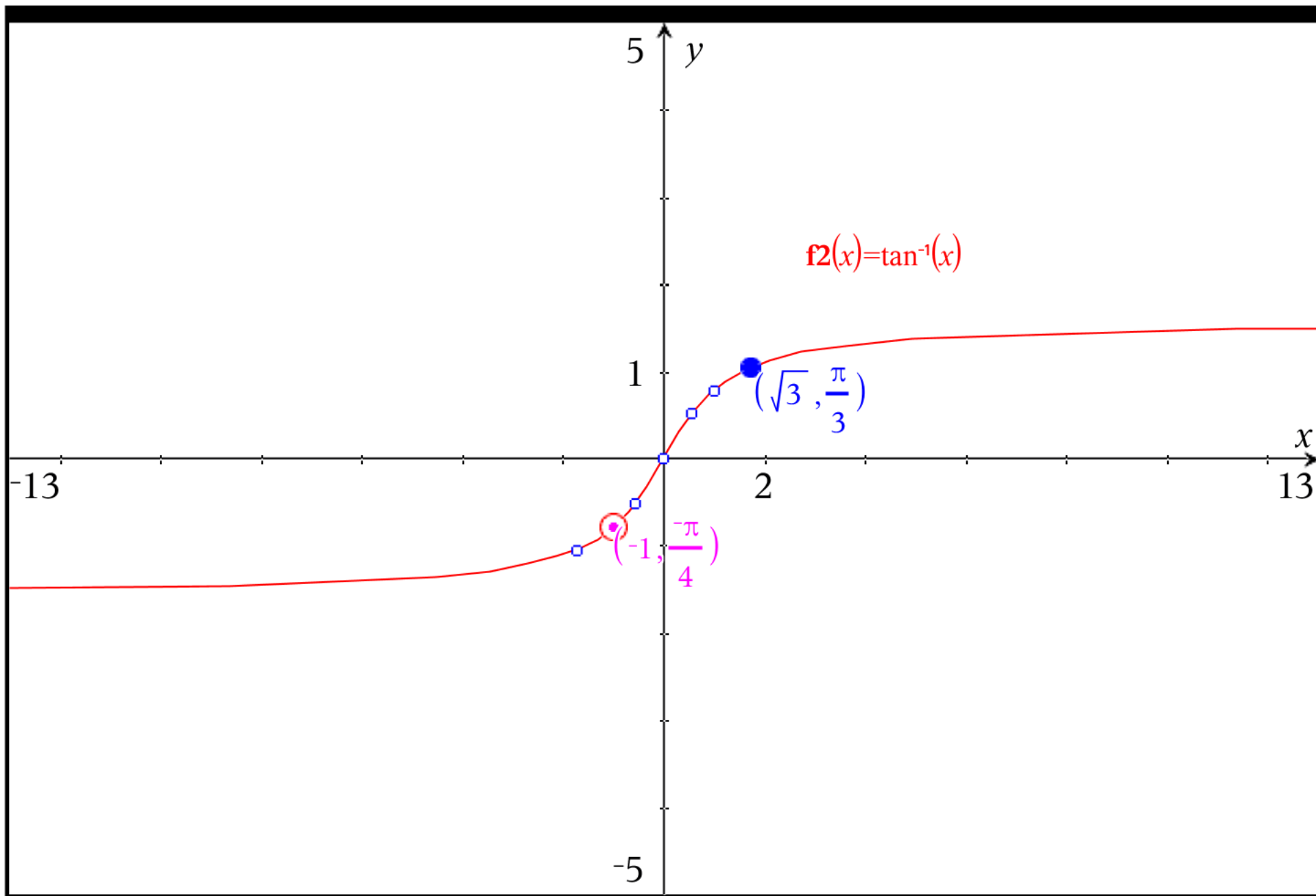
The special coordinate associated with an angle that has a tangent ratio of -1

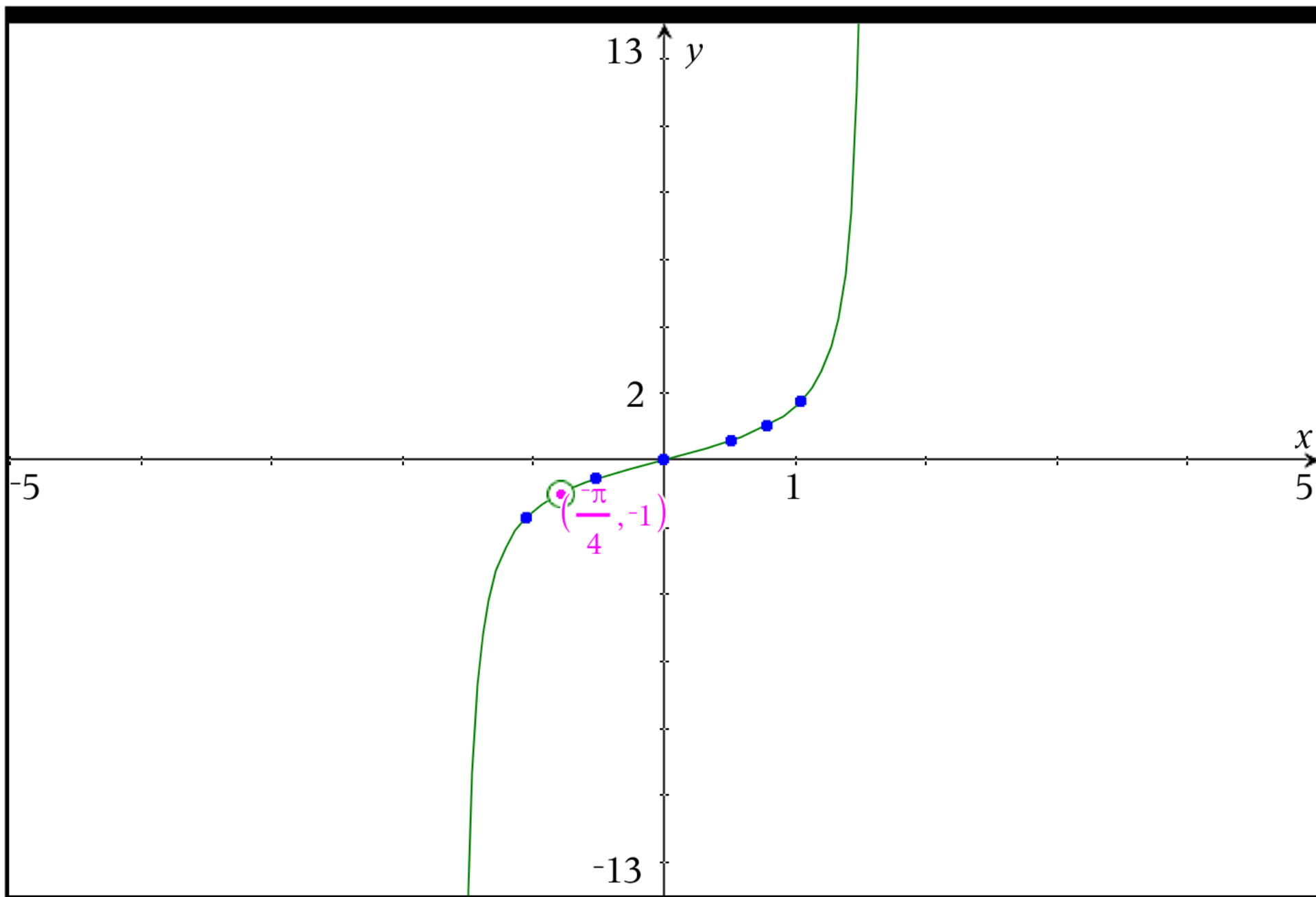
the related angle in radian measurement is $\frac{-\pi}{4}$

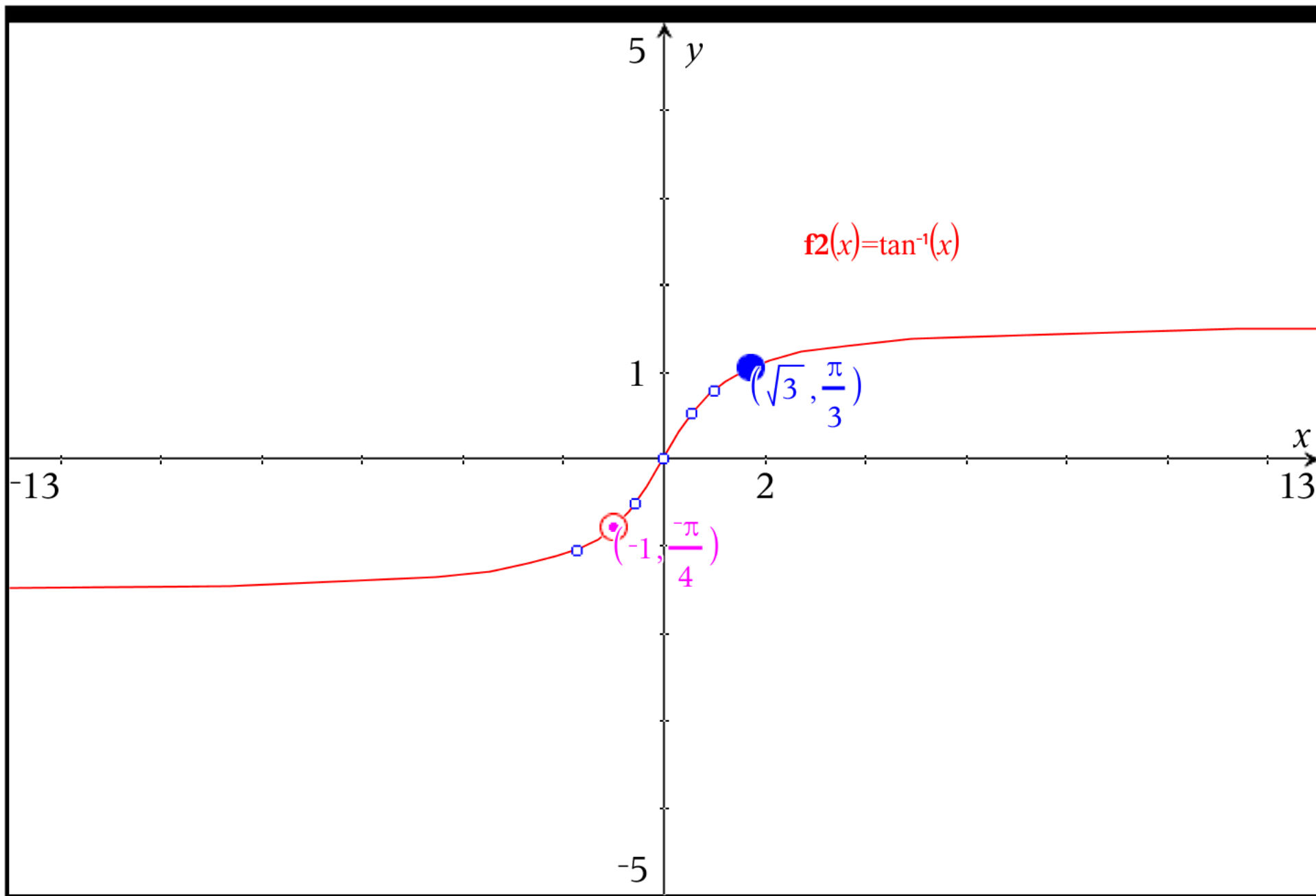
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	A	B	C
=			
1	opp_t		-1
2	adj_t		1
3			
4			
5			
6			
7			
8			
9			
10			
11			

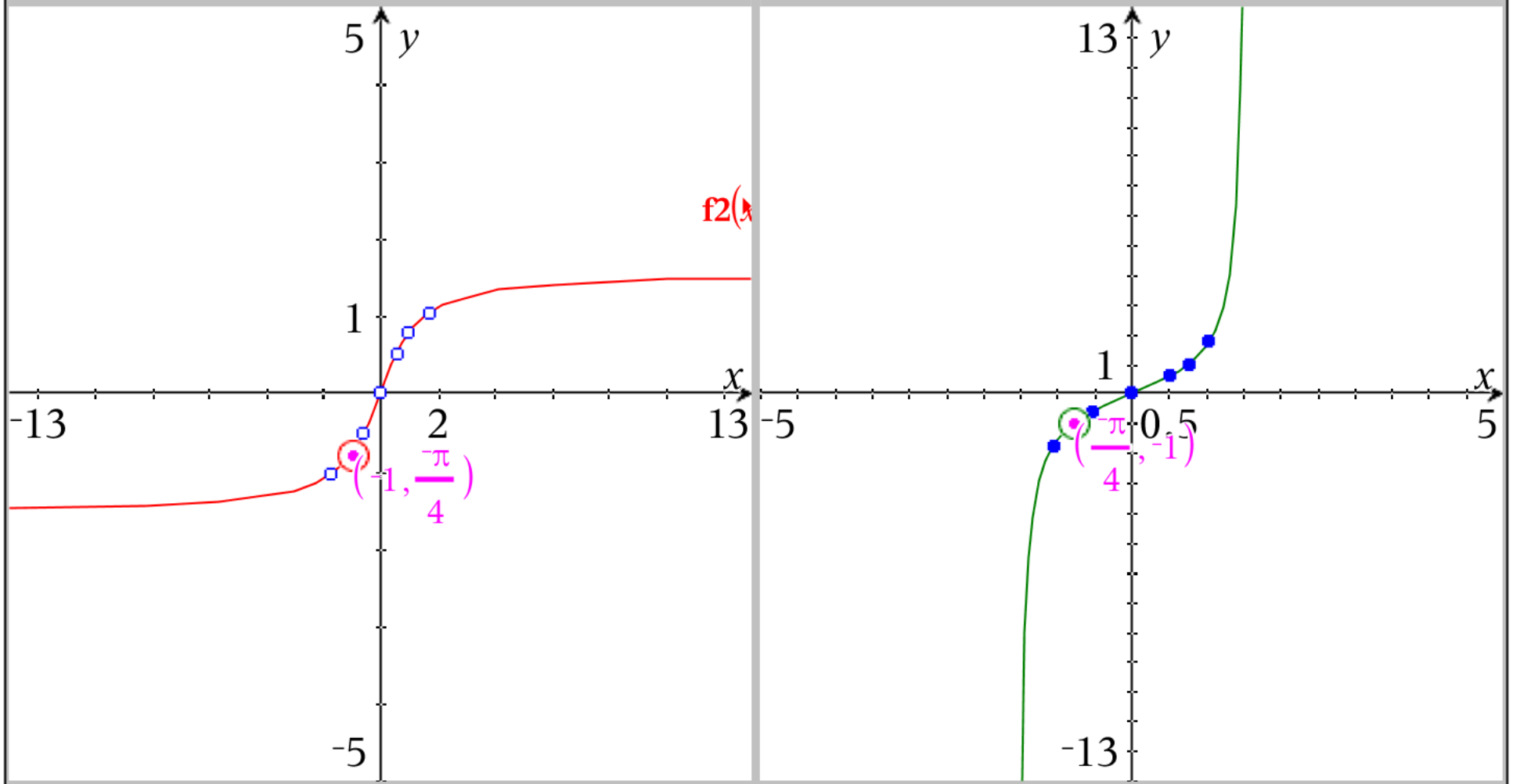


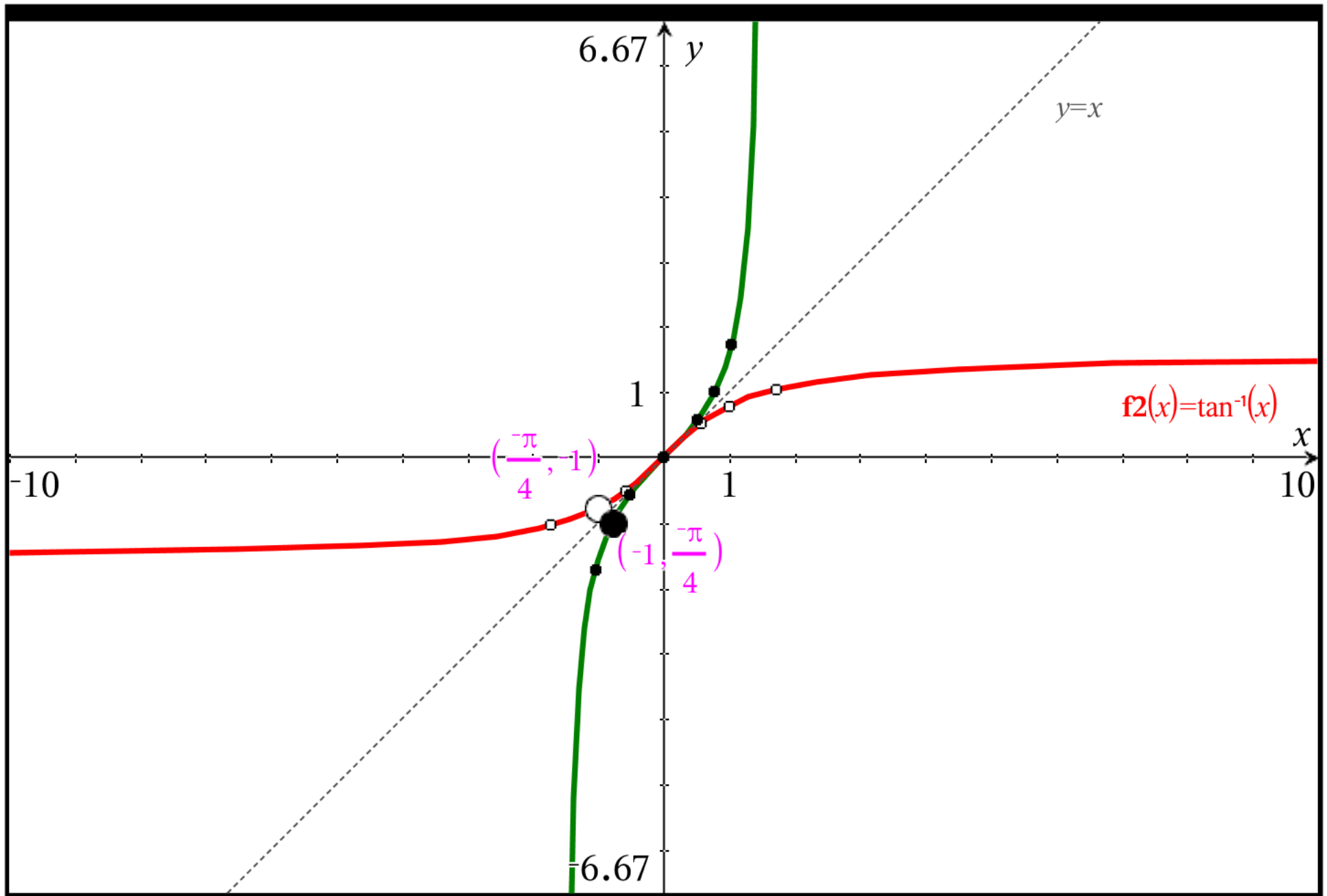




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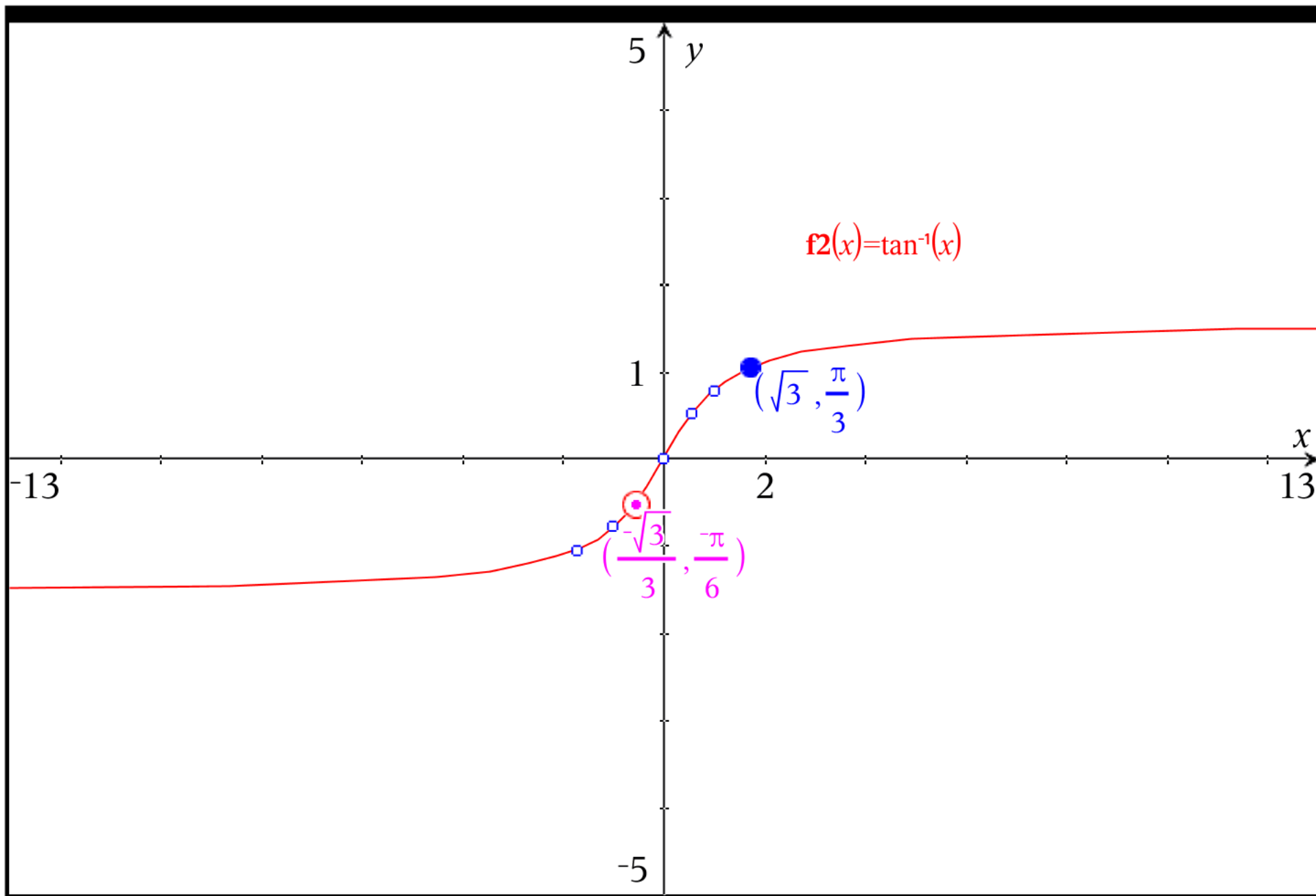
The special coordinate associated with an angle that has a tangent ratio of $\frac{-\sqrt{3}}{3}$

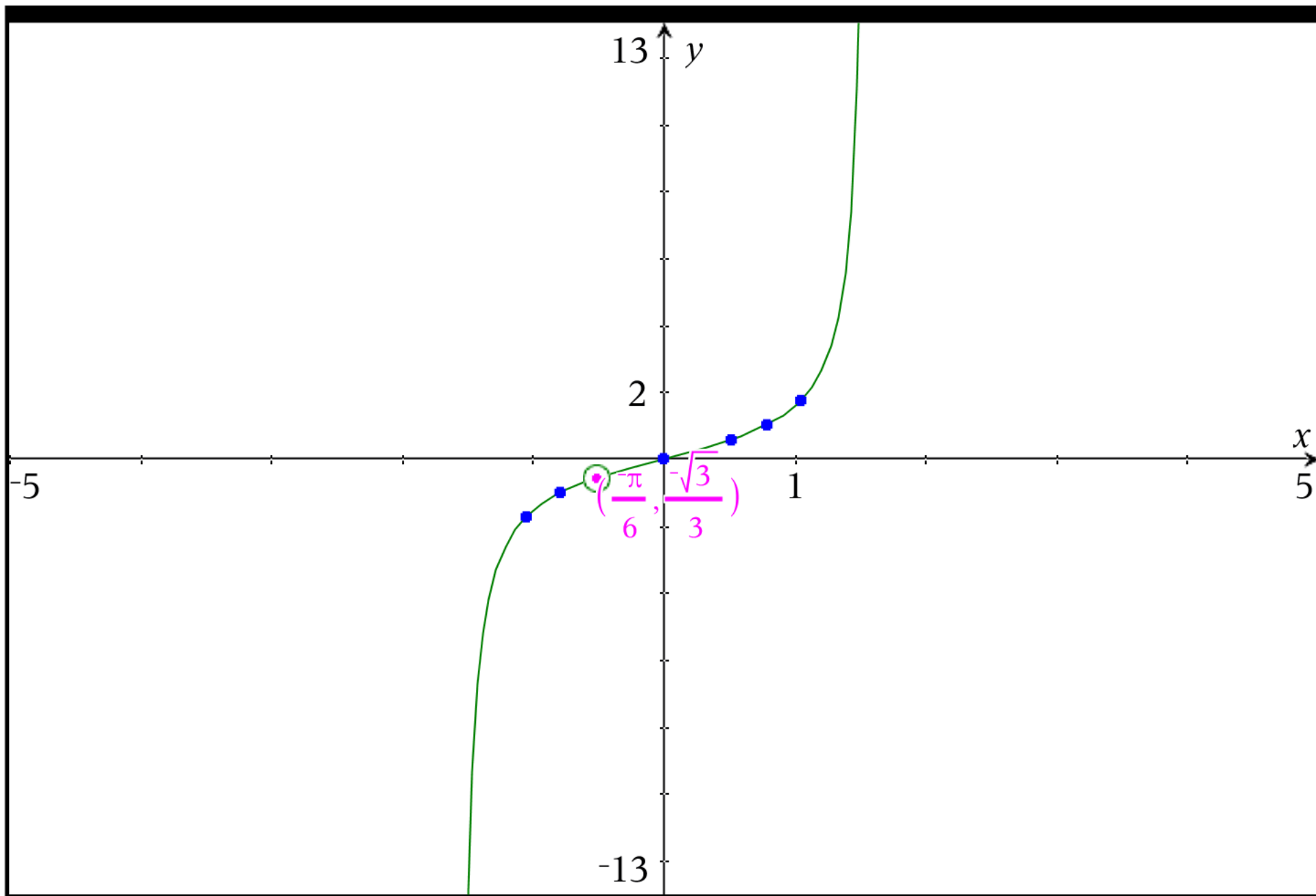
the related angle in radian measurement is $\frac{-\pi}{6}$

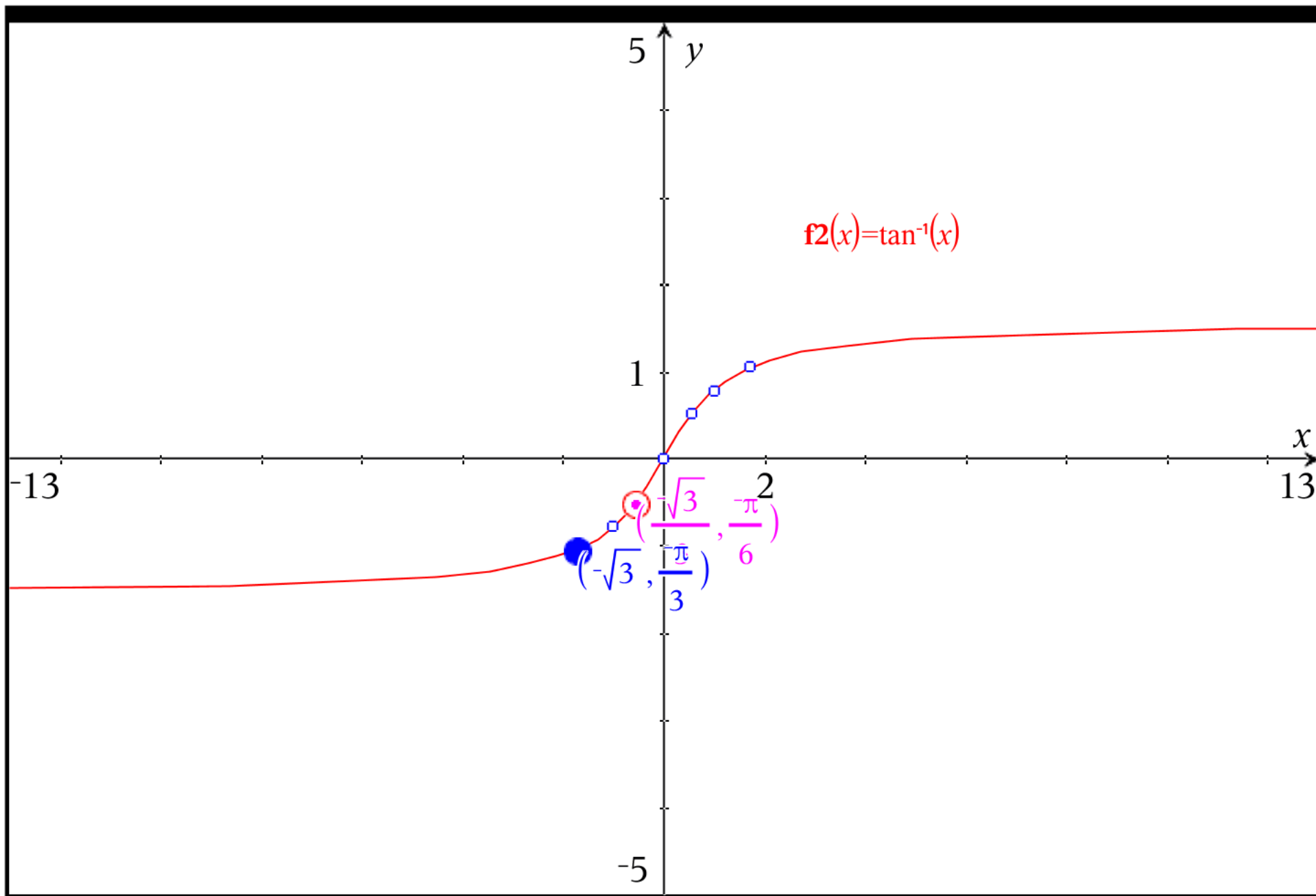
The user can change the grey boxes to define a new tangent ratio

The large solid point can be manipulated by the user on either the graph of the tangent function or its inverse

	A	B	C
=			
1	opp_t		1
2	adj_t	$-\sqrt{(3)}$	
3			
4			
5			
6			
7			
8			
9			
10			
11			
	B3		

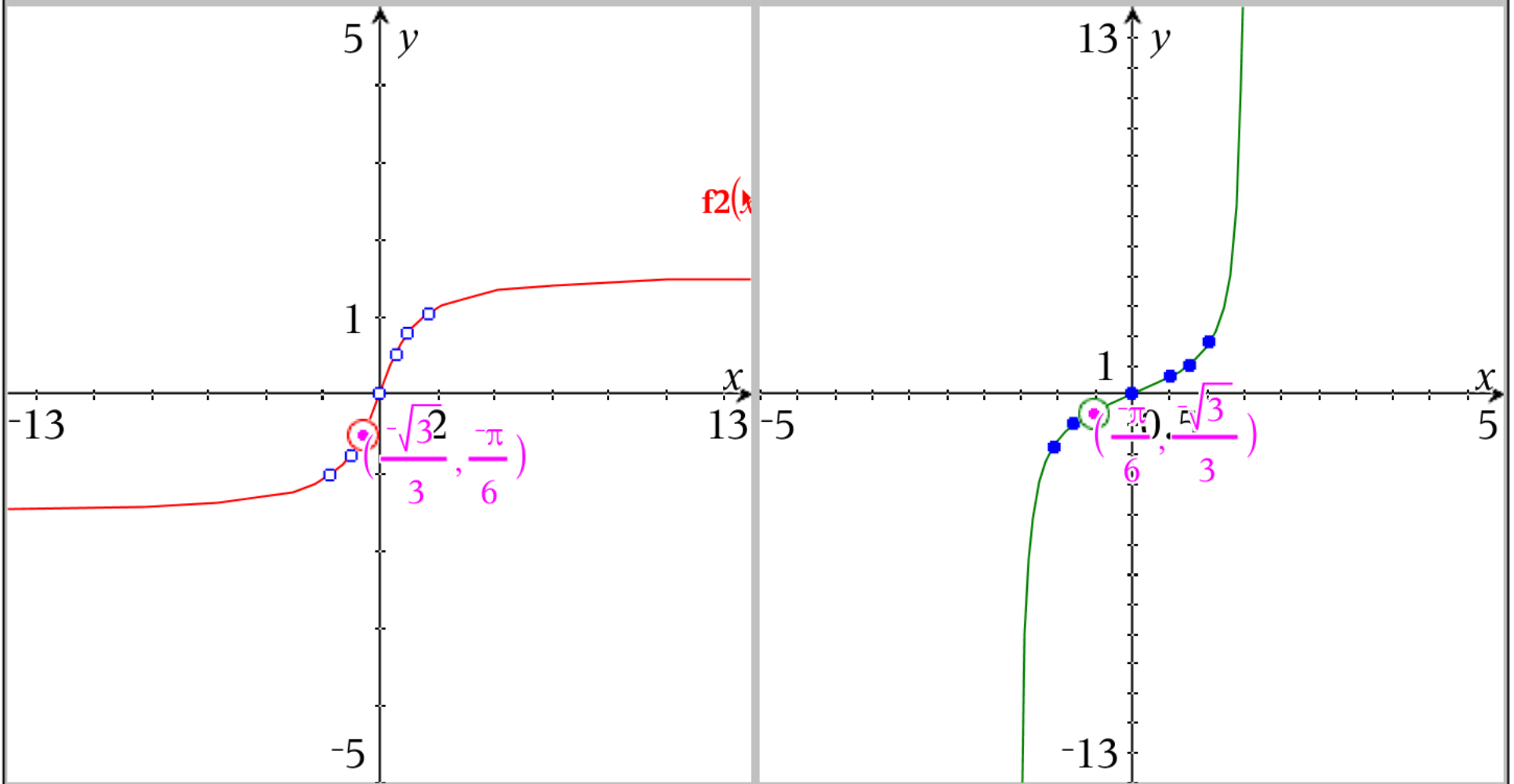


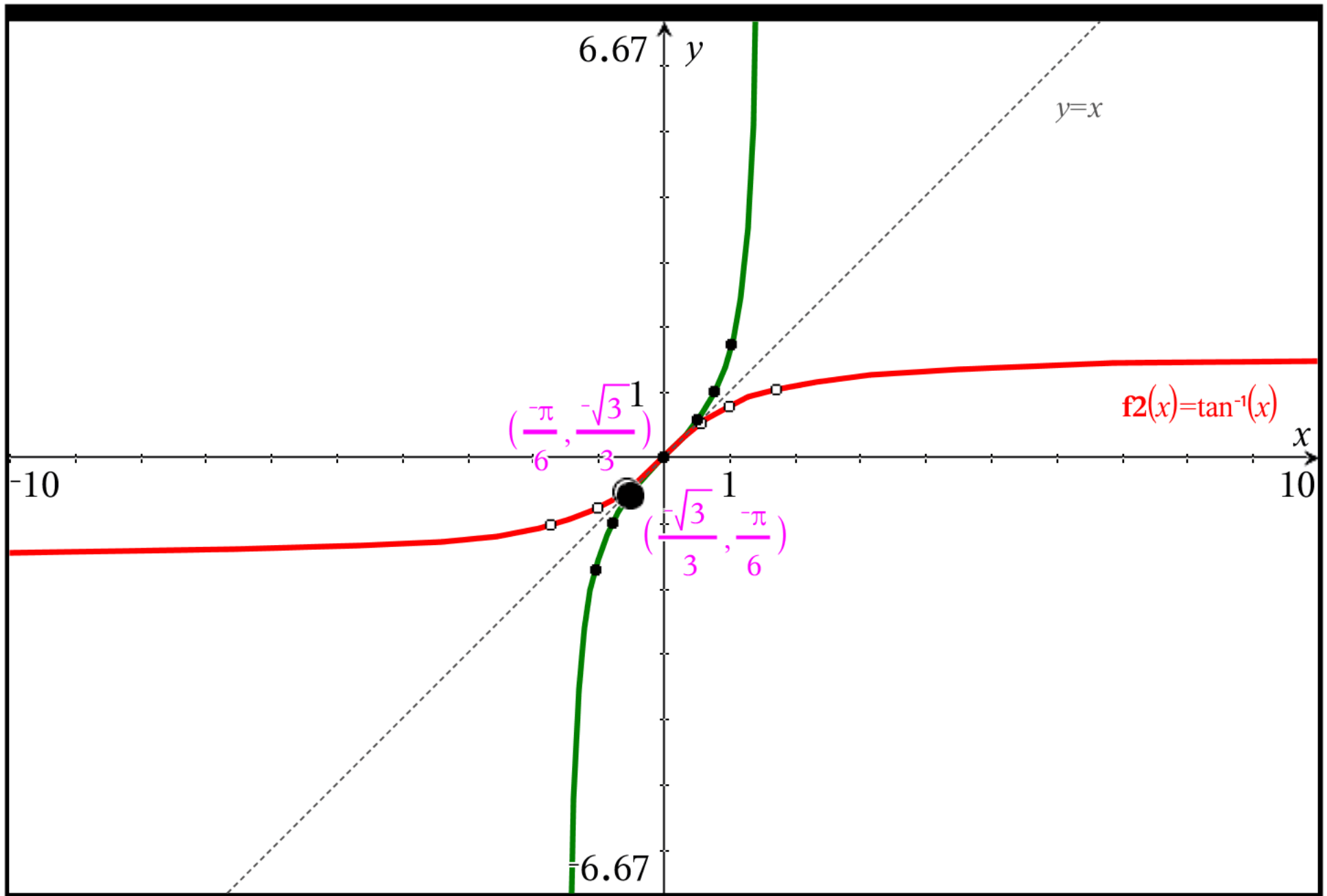




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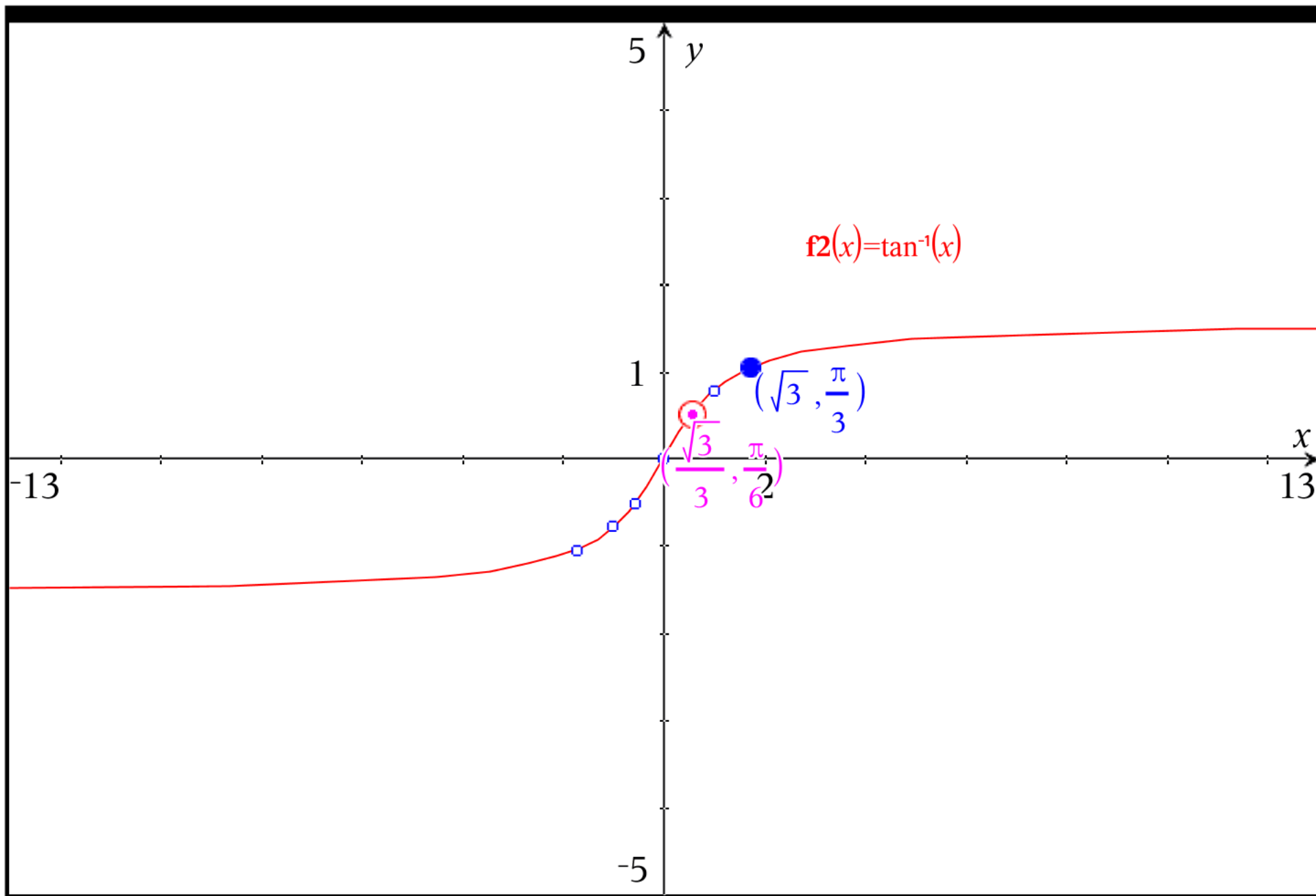
The special coordinate associated with an angle that has a tangent ratio of $\frac{\sqrt{3}}{3}$

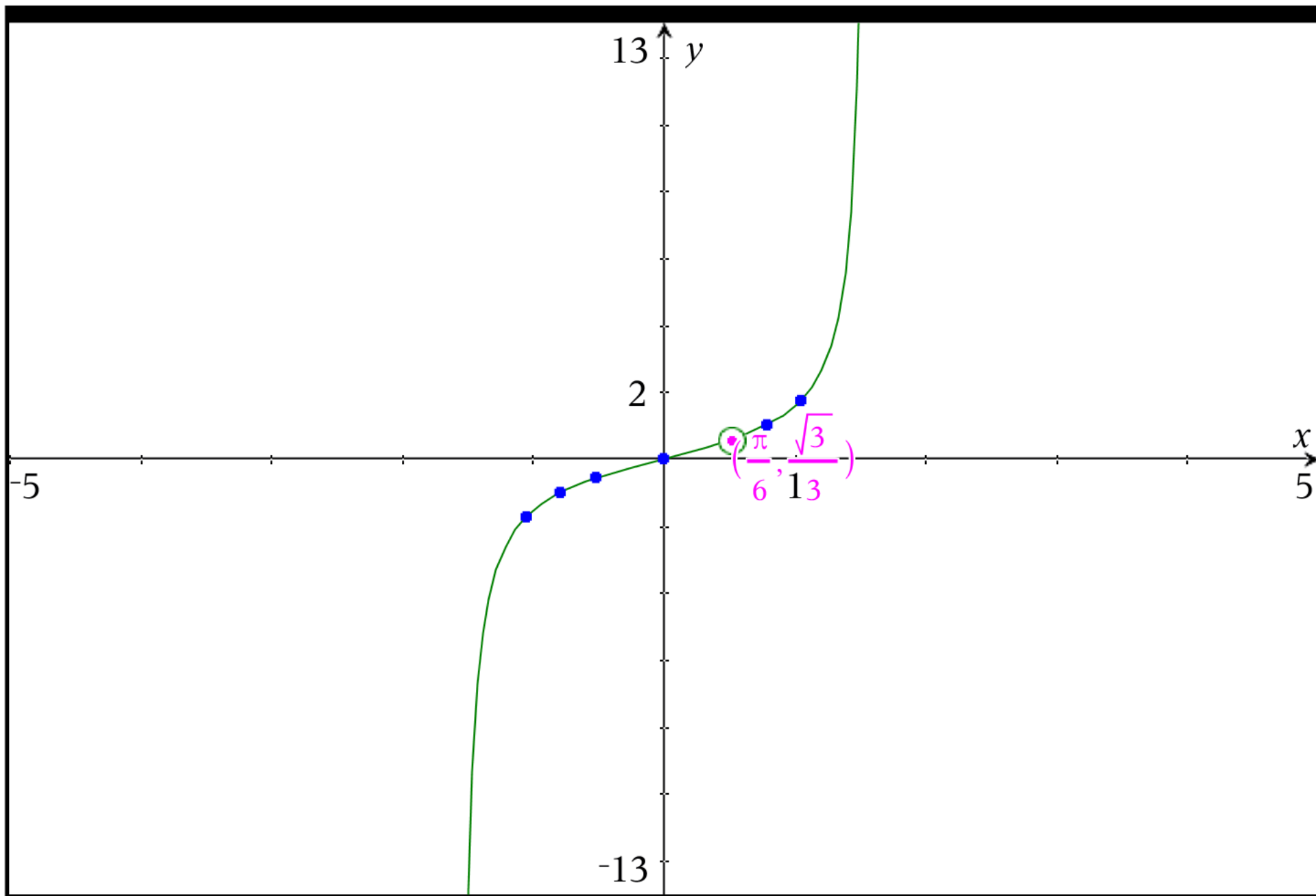
the related angle in radian measurement is $\frac{\pi}{6}$

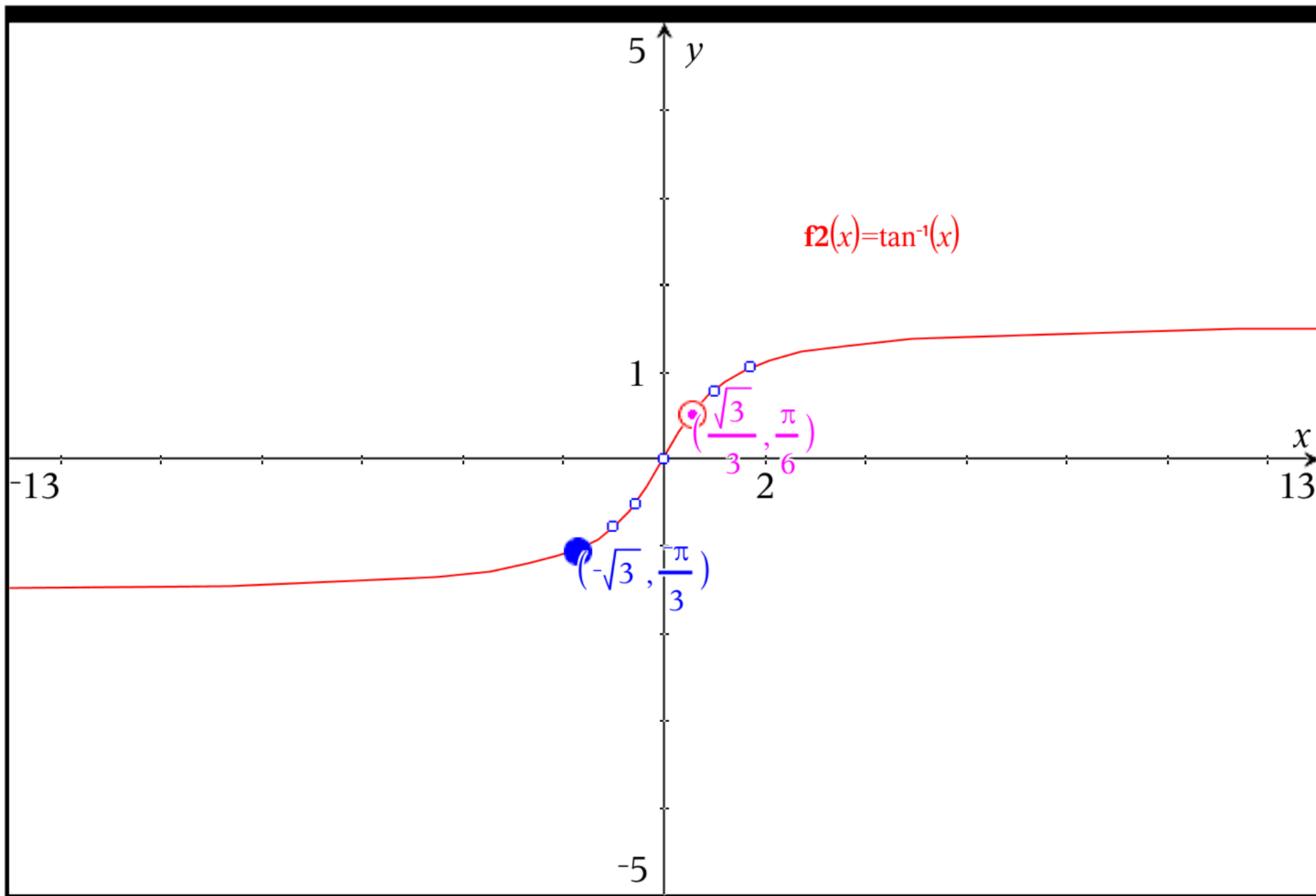
The user can change the grey boxes to define a new tangent ratio

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	A	B	C
=			
1	opp_t		1
2	adj_t	$\sqrt{3}$	
3			
4			
5			
6			
7			
8			
9			
10			
11			
	B3		

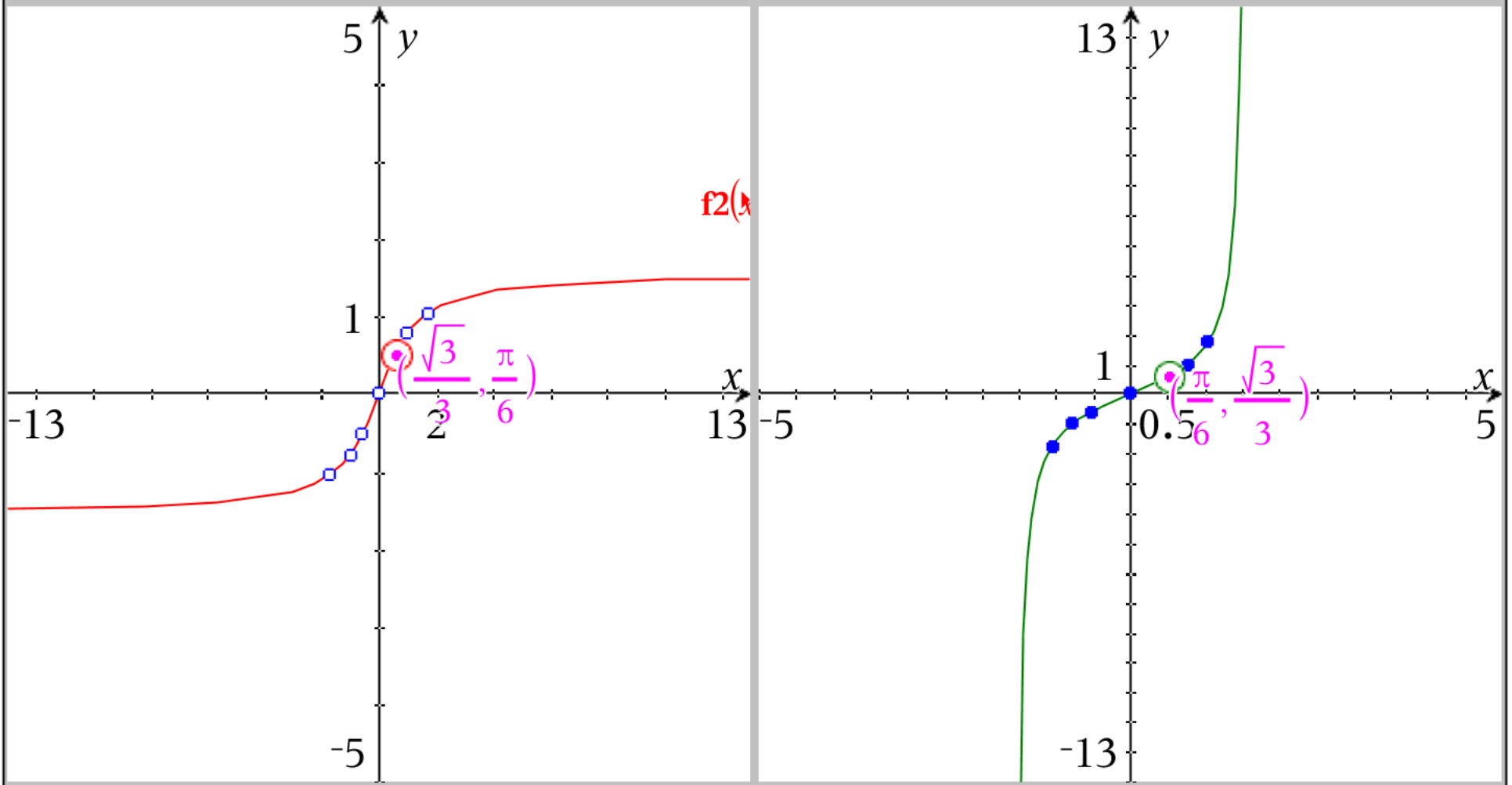


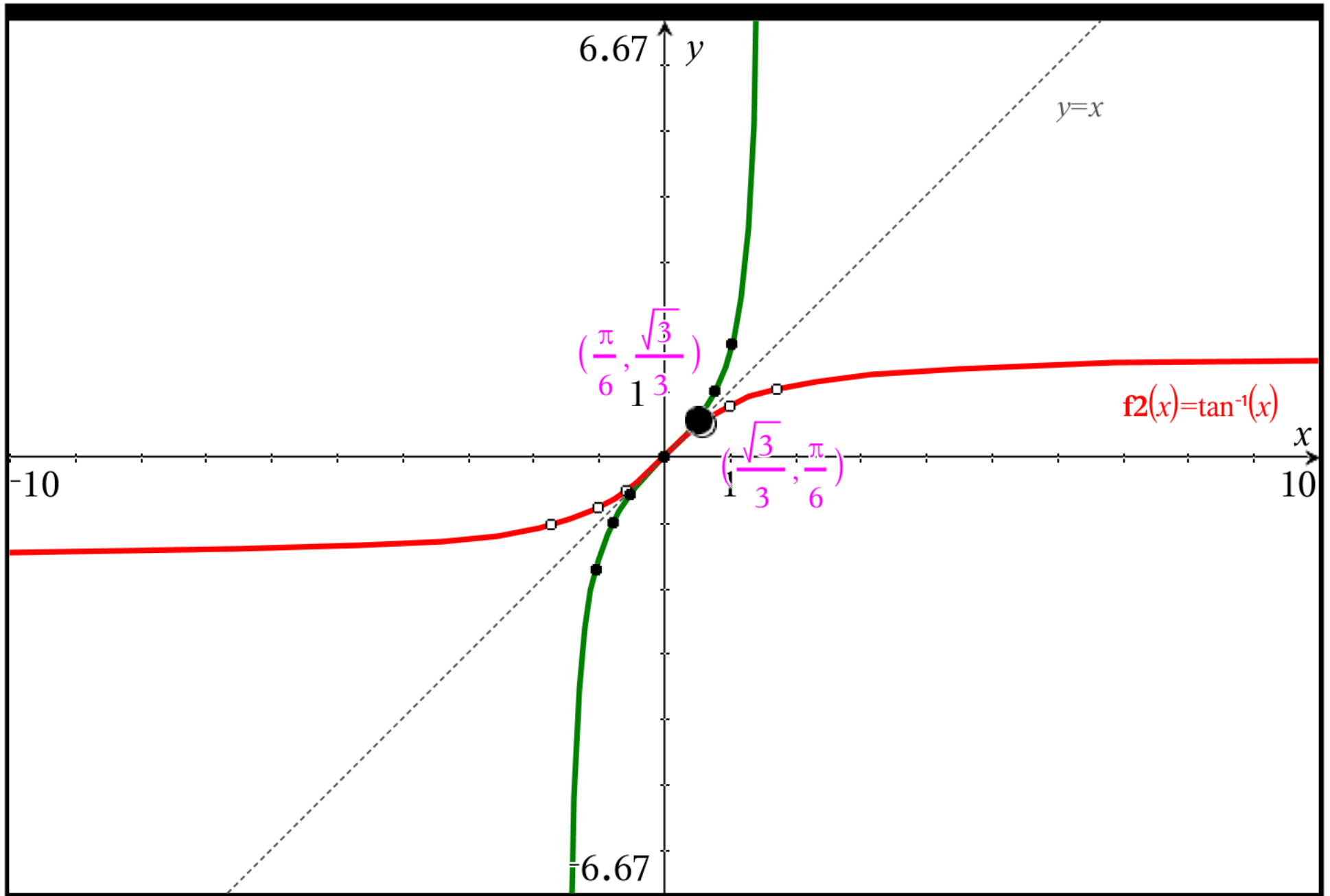




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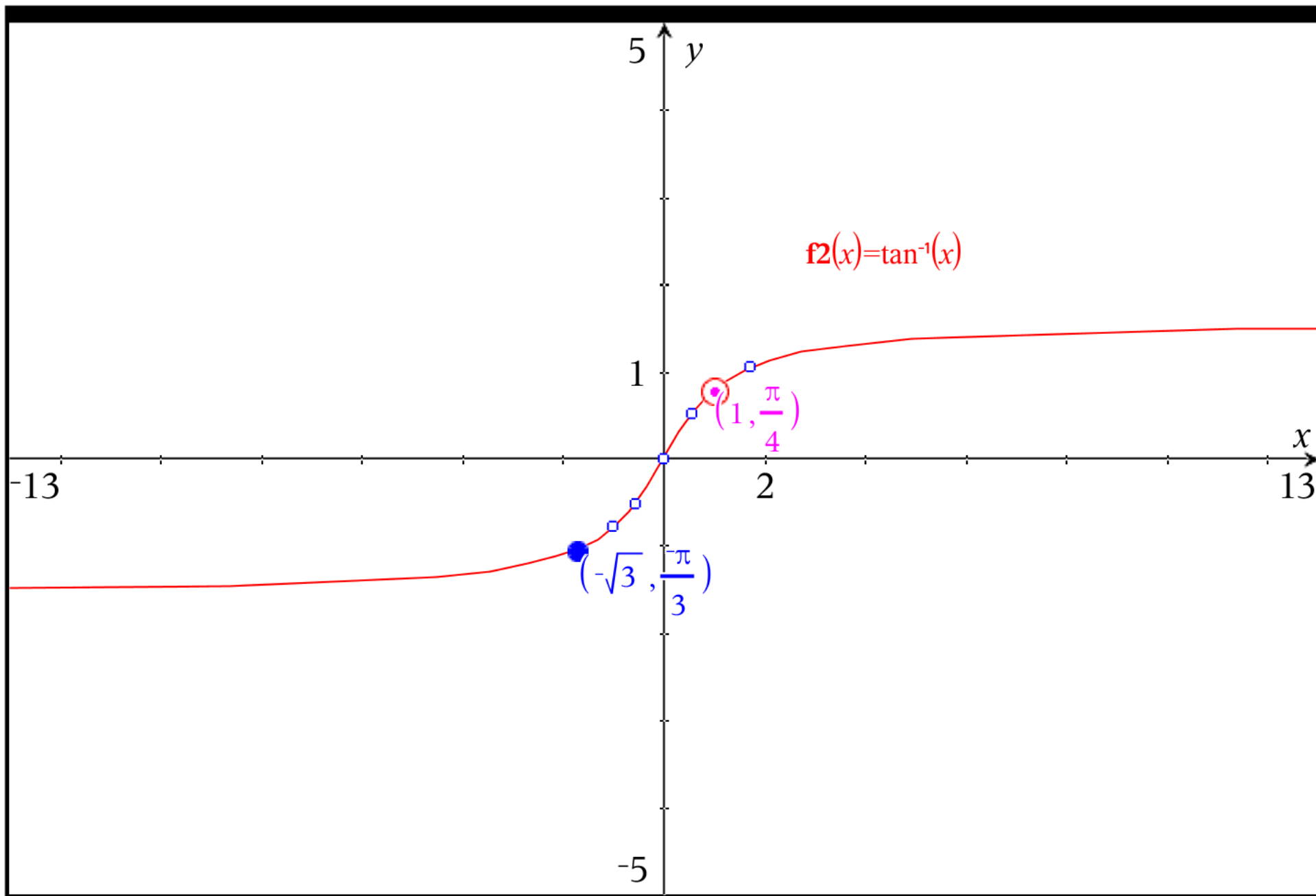
The special coordinate associated with an angle that has a tangent ratio of 1

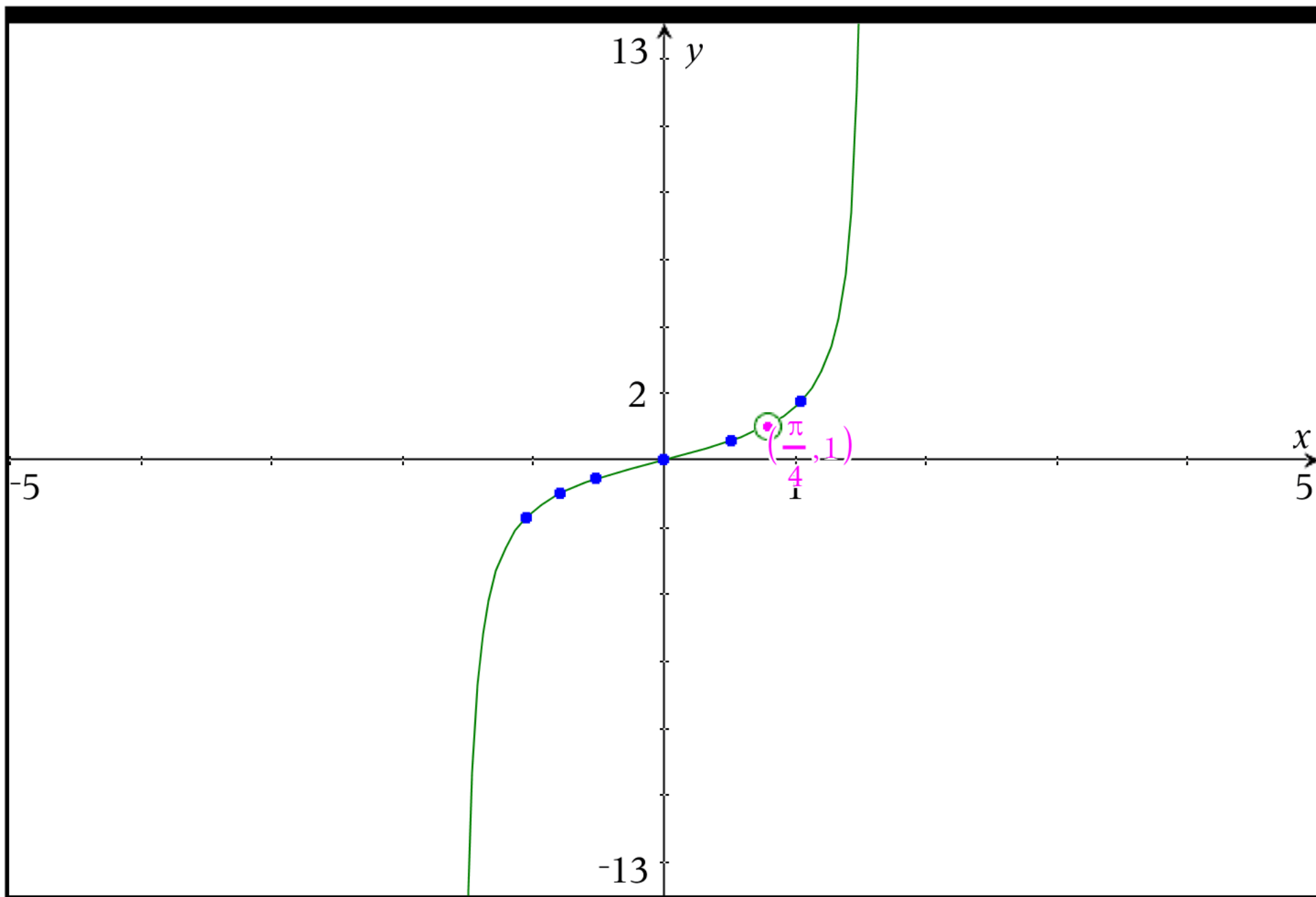
the related angle in radian measurement is $\frac{\pi}{4}$

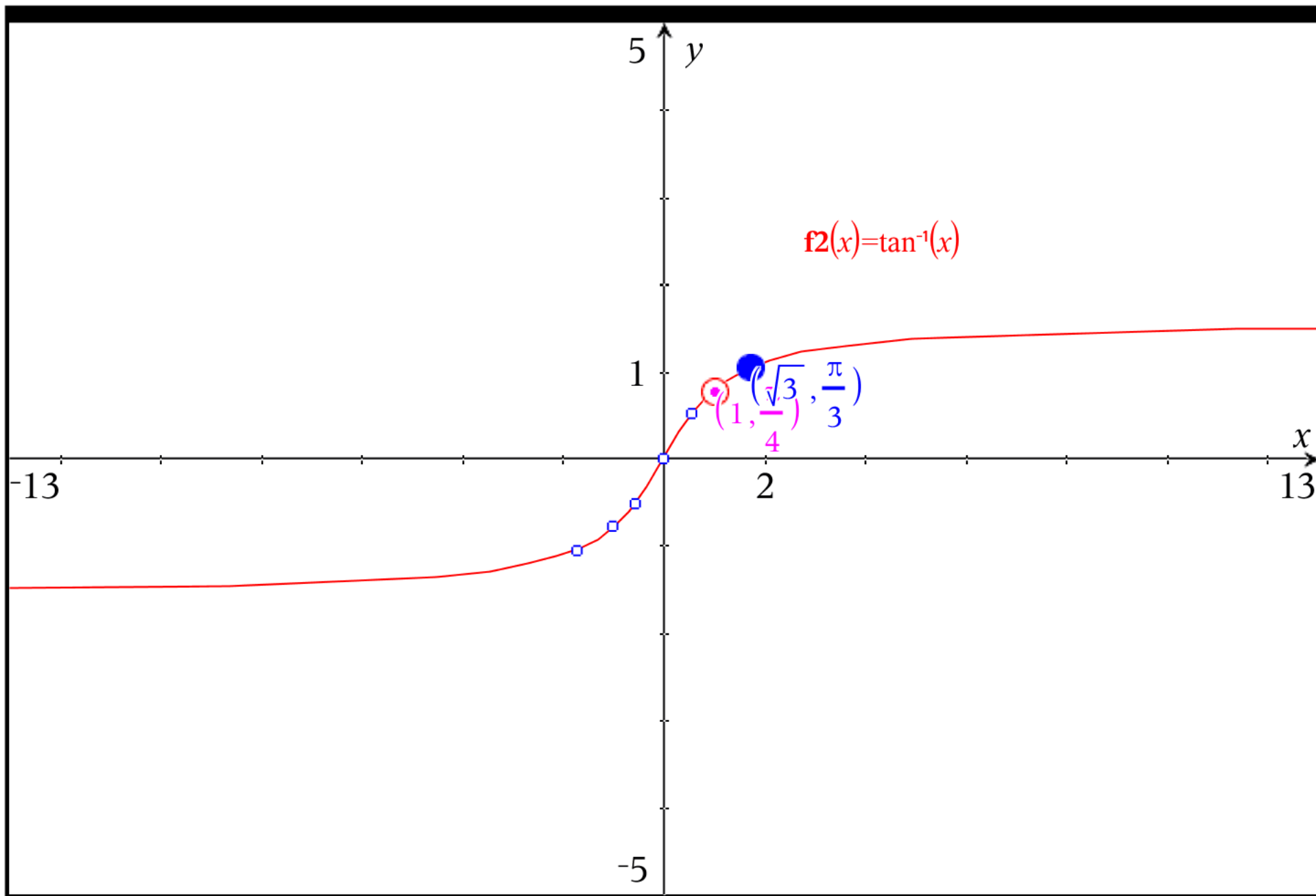
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	A	B	C
=			
1	opp_t		1
2	adj_t		1
3			
4			
5			
6			
7			
8			
9			
10			
11			
	B2	1	

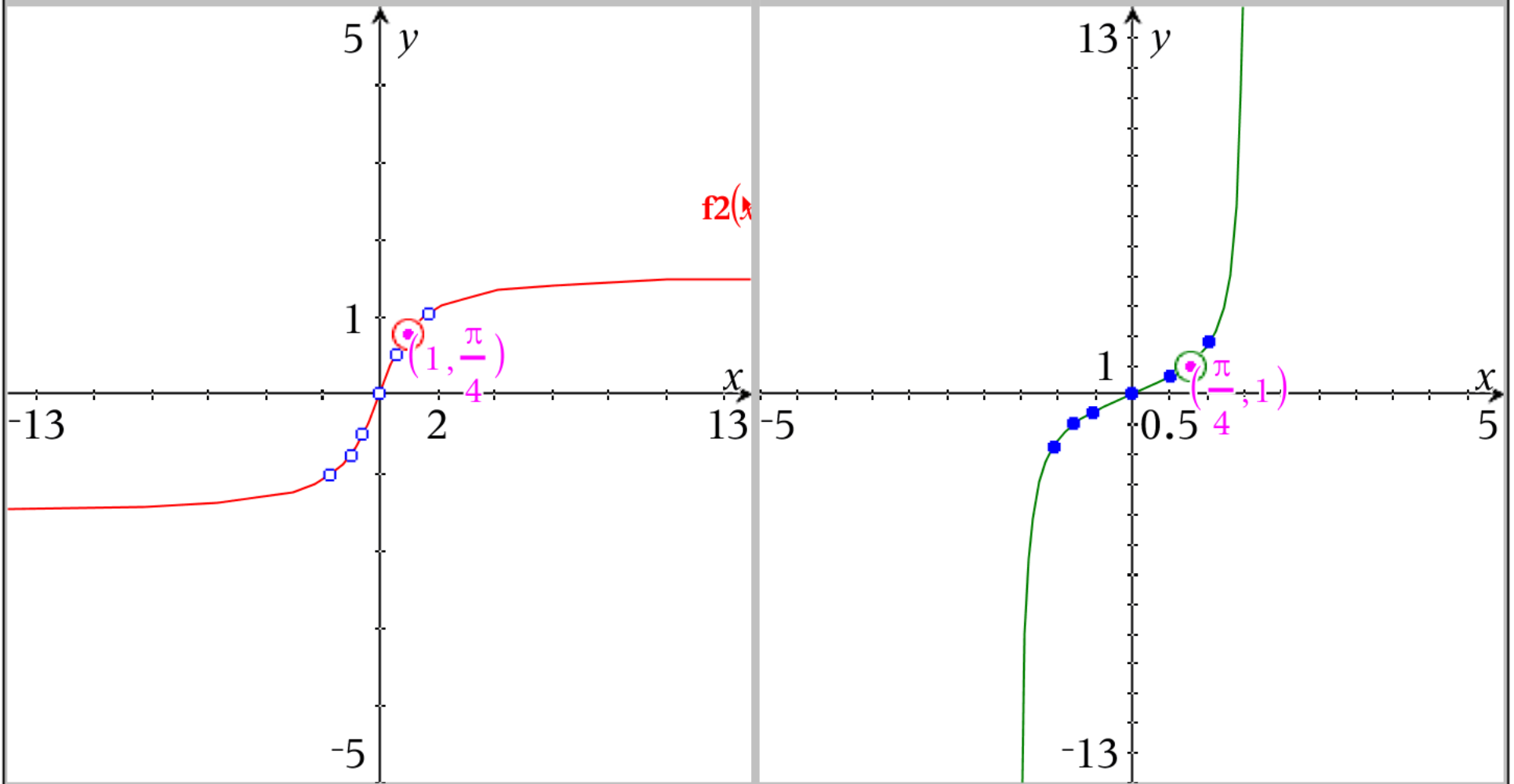


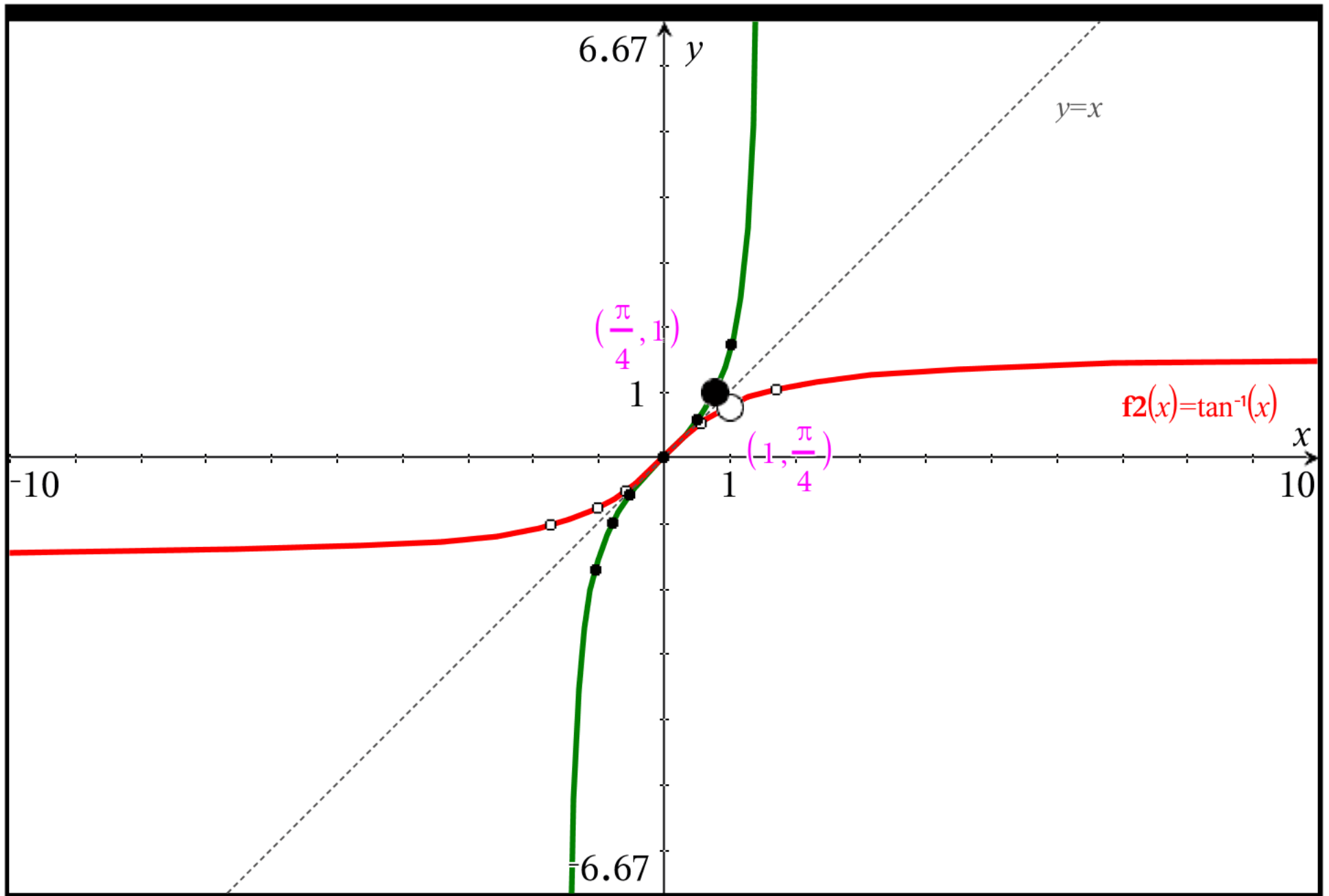




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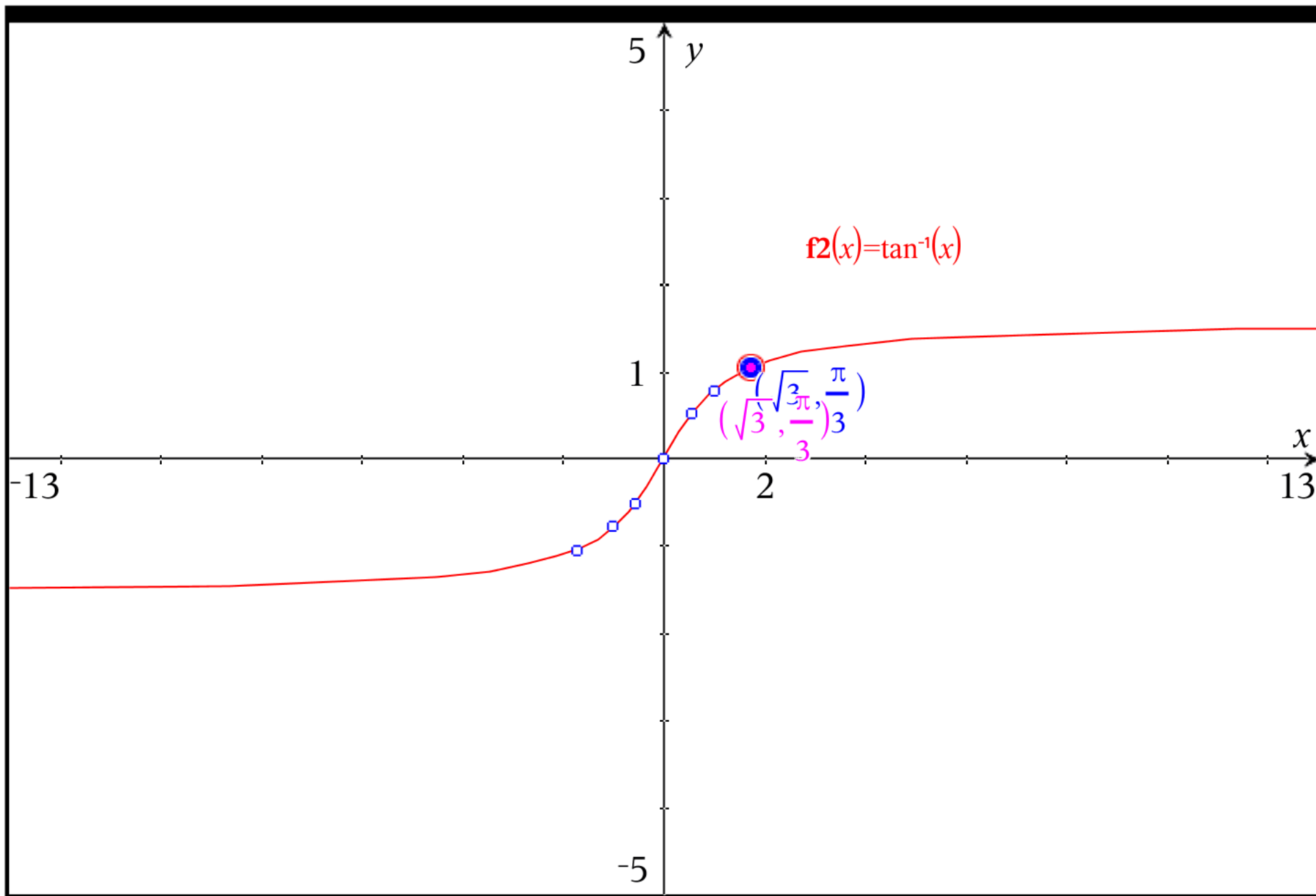
The special coordinate associated with an angle that has a tangent ratio of $\sqrt{3}$

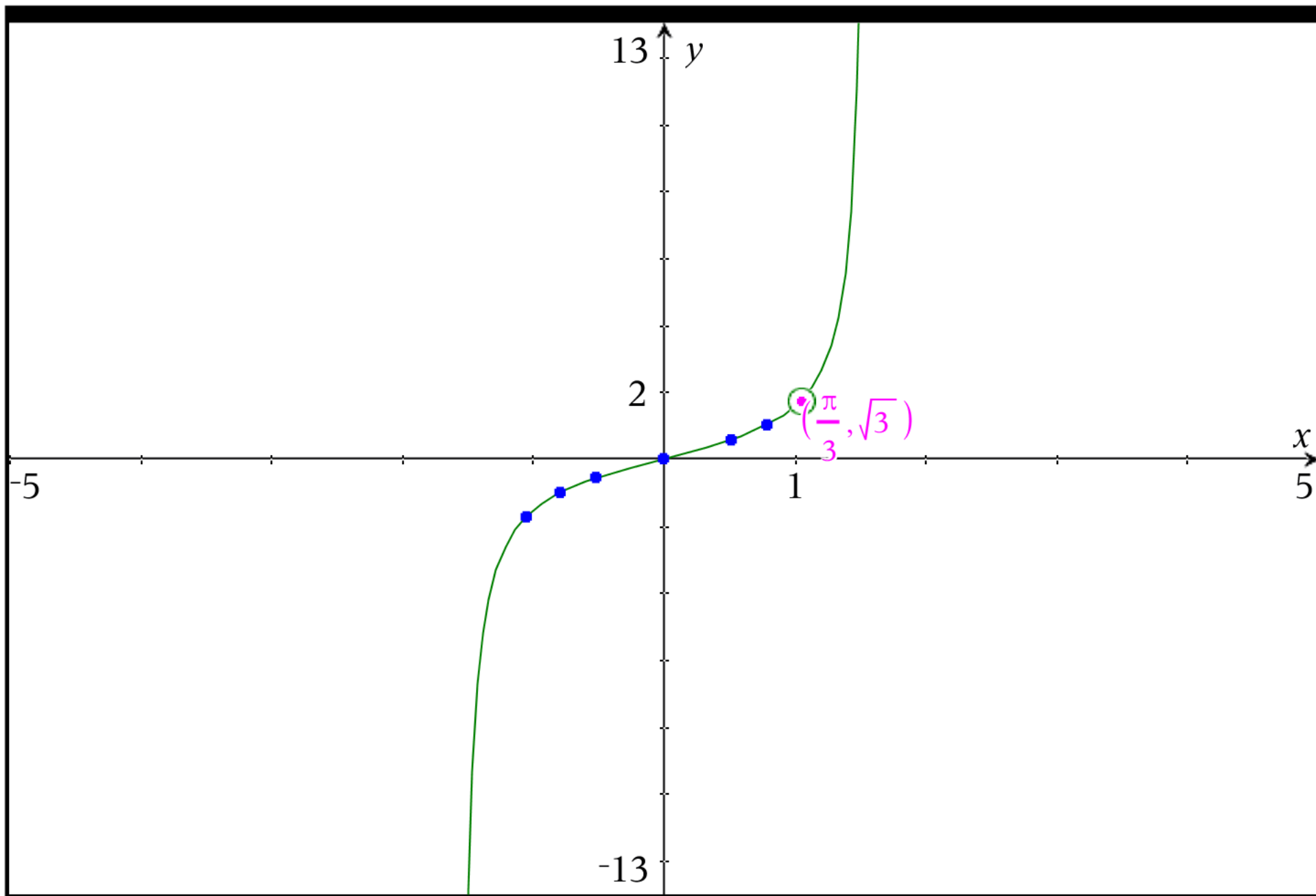
the related angle in radian measurement is $\frac{\pi}{3}$

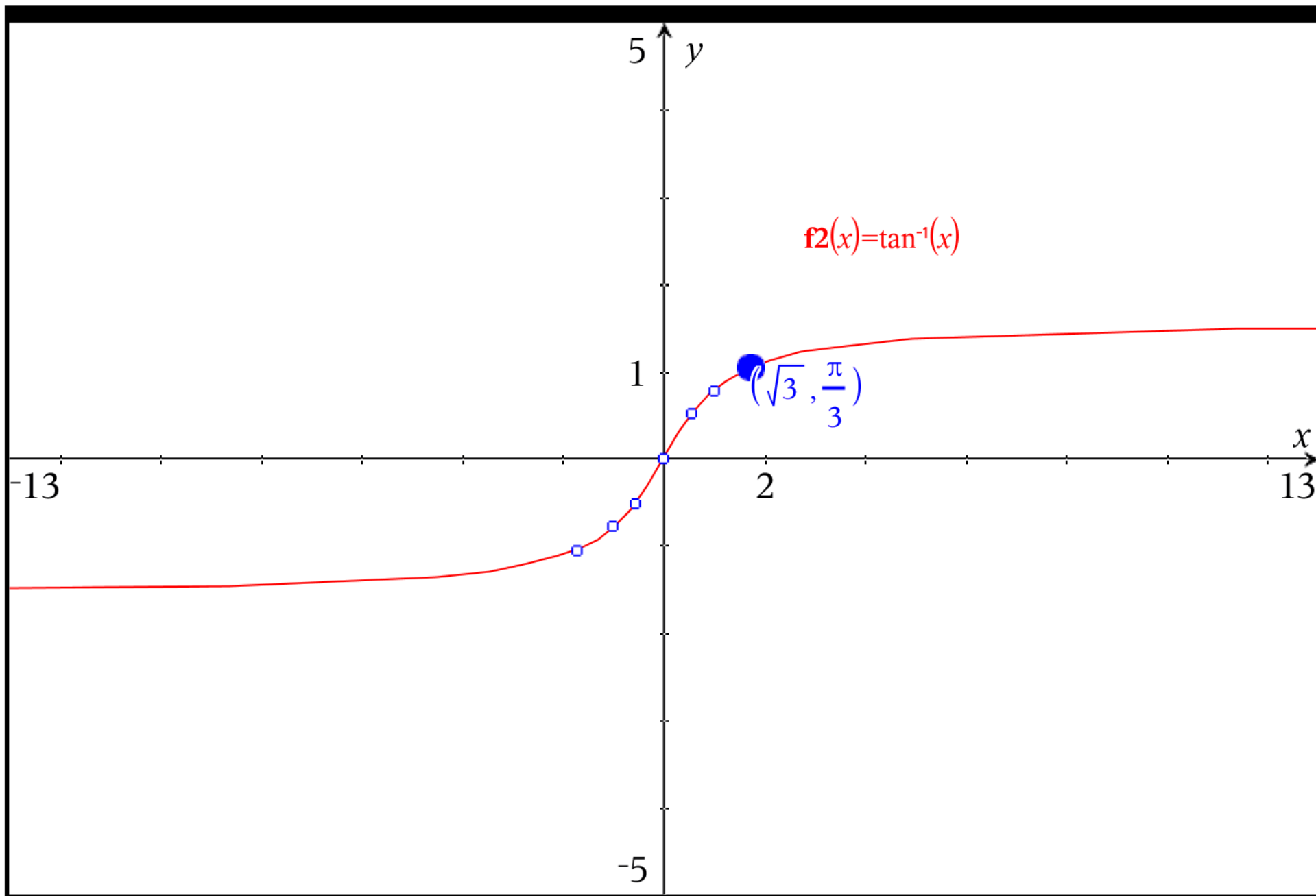
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